

**EPA**United States Environmental Protection Agency  
Washington, DC 20460**Work Assignment**

Work Assignment Number

3-43

☐ Other ☐ Amendment Number.

Contract Number

EP W 10 002

Contract Period 11/19/2009 to 09/19/2014

Base

Option Period Number 3

Title of Work Assignment/SF Site Name

Report Development Altern. Aff

Contractor

INDUSTRIAL ECONOMICS, INCORPORATED

Specify Section and paragraph of Contract SOW

Element III, Sec. 1 &amp; 2 Evaluations &amp; Analysis

Purpose:



Work Assignment



Work Assignment Close-Out



Work Assignment Amendment



Incremental Funding



Work Plan Approval

Period of Performance

From: 09/20/2012 To: 03/31/2013

Comments:

The purpose of this action is to initiate Work Assignment (WA) 3-43 which continues but does not duplicate work previously performed under WA 2-43.



Superfund

## Accounting and Appropriations Data



Non Superfund

SFO  
(Max 2)

Note: To report additional accounting and appropriations data use EPA Form 1300-G9A.

Line	DCN (Max 5)	Budget/FY (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class (Max 4)	Amount (Dollars)	(Cents)	Site/Project (Max 8)	Cost Crg/Code (Max 7)
1										
2										
3										
4										
5										

## Authorized Work Assignment Coiling

Contract Period:

Cost/Fee:

LOE:

11/19/2009 To 09/19/2014

This Action:

Total

## Work Plan / Cost Estimate Approvals

Contractor WP Dated:

Cost/Fee:

LOE:

Cumulative Approved:

Cost/Fee:

LOE:

Work Assignment Manager Name Samuel Hernandez

Branch/Mail Code:

Phone Number 202 564 1735

FAX Number:

(Signature)

(Date)

Project Officer Name Cheryl R. Brown

Branch/Mail Code:

Phone Number: 202 566 0940

FAX Number:

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code:

Phone Number:

FAX Number:

(Signature)

(Date)

Contracting Official Name Stefan Kariyan

Branch/Mail Code:

Phone Number: 202-564-1987

FAX Number:

(Signature)

(Date) 9/19/2012

## **Work Assignment Statement of Work**

**Title:** Support for the Development of a Report to Congress Regarding Alternative Affordability Criteria for Compliance with the Arsenic Rule.

**Contractor:** IEC, Inc.

**Contract No.:** EP-W-10-002

**Work Assignment Number:** WA 3-43

**Estimated Period of Performance:** Date of issuance to March 31, 2012

**Estimated Level of Effort:** 142.30 hours

### **Key EPA Personnel:**

#### **Work Assignment COR (WA COR):**

Samuel Hernández Quiñones  
Office of Ground Water and Drinking Water, U.S. EPA  
1200 Pennsylvania Ave., N.W.  
Washington, DC 20460  
(202) 564-1735 (phone)  
(202) 564-3760 (fax)  
Mail Code (4607M)  
hernandez.samuel@epa.gov

#### **Contract Level COR:**

Cheryl R. Brown  
Office of Policy (1805T)  
202/566-0940  
202/566-3001 (fax)

### **Background and Purpose:**

The Office of Ground Water and Drinking Water (OGWDW), USEPA is responsible for implementing the provisions of the Safe Drinking Water Act (SDWA). In accordance with SDWA, OGWDW promulgates regulations to address the public health risks which arise from contaminants in drinking water.

On December 2011, the U.S. Congress directed EPA to undertake a number of actions with respect to arsenic in drinking water. The Conference Report (H.R. 2055) accompanying the Consolidated Appropriations Act of 2012 directs EPA to convene a working group composed of representatives from States, small publicly owned water systems, local public health officials, drinking water consumers and treatment manufacturers to provide input and recommendations on: 1) barriers to implementation of treatment technologies for small systems and, 2) alternative affordability criteria that give

extra weight to small, rural, and lower income communities. Based upon input from the work group, the Agency will submit to Congress a report on making alternative compliance methods more accessible to water systems and a report on alternative affordability criteria.

The purpose of this work assignment is to assist EPA in the development of a report on alternative affordability criteria. The contractor may be tasked with evaluating and analyzing recommended approaches for alternative affordability criteria that give extra weight to small, rural, and lower income communities. Under this work assignment task, the contractor shall provide analytical and technical support for the development of the report. All work performed by the contractor that results in a deliverable becomes the property of the EPA.

The proposed personnel under this Work Assignment shall possess a solid understanding of EPA's Affordability Criteria for Small Drinking Water Systems. The project involves innovative analysis and application of stakeholder recommendations, as well as skilled analysis of economic data and providing written materials to non-technical audiences..

#### **Quality Assurance (QA) Requirements**

Check ☐ Yes or ☒ NO, if the following statement is true or false. The Contractor shall submit a written Quality Assurance Project Plan for any project that is developing environmental measurements or a Quality Assurance Supplement to the Quality Management Plan for any project which generates environmental data using models with their technical proposal.

Prior to starting work under optional Task 4 the Contractor shall submit a written Quality Assurance Supplement to the Quality Management Plan, in accordance with EPA Q/A requirements.

#### **TASKS AND DELIVERABLES:**

The WA COR will review all deliverables in draft form and provide revisions and/or comments to the contractor. The contractor shall prepare the final deliverables incorporating the WA COR's comments.

Contractor personnel shall at all times identify themselves as Contractor employees and shall not present themselves as EPA employees. Furthermore, they shall not represent the views of the U.S. Government, EPA, or its employees. In addition, the Contractor shall not engage in inherently governmental activities, including but not limited to actual determination of EPA policy and preparation of documents on EPA letterhead.

**The contractor shall not duplicate work performed in the previous work assignment(s).**

## **TASK 1:**

### **PREPARE WORKPLAN - COMPLETED**

*[Contract Scope of Work Element I (Planning & Management Support)]*

The contractor shall prepare a workplan within 15 calendar days of receipt of a work assignment signed by the Contracting Officer. The workplan shall outline, describe and include the technical approach, resources, timeline and due dates for deliverables, a detailed cost estimate by task, and a staffing plan. The WA COR and the Contract Level COR and the CO will review the workplan. However, only the CO can approve/disapprove the workplan. The contractor shall prepare a revised workplan incorporating the Contracting Officer's comments, if required.

#### **Deliverables and Schedule Under Task 1**

1a. Workplan	Within 15 calendar days of receipt of work assignment.
1b. Revised workplan	Within 5 calendar days of receipt of comments from the CO, if required.
1c. Monthly progress/financial reports	In accordance with Contract requirements

#### **NOTE REGARDING WORK ASSIGNMENT DELIVERABLES AND TECHNICAL DIRECTION:**

The Work Assignment Contracting Officer's Representative (COR) is authorized to issue technical direction under this work assignment. The WAM will follow-up all oral technical direction in writing within 5 days.

## **TASK 2: - COMPLETED**

### **OBSERVE AND PARTICIPATE IN ARSENIC SMALL SYSTEM WORKING GROUP AND DEVELOPMENT OF BACKGROUND INFORMATION PAPERS/PRESENTATIONS**

*[Contract Scope of Work Element III (Evaluating Innovations), Sections 1&2 Evaluations & Analysis]*

- 2-1 EPA will convene a series of up to 5 webinars and one face to face meeting in Washington, DC with an Arsenic Small System Working Group composed of representatives from States, small publicly owned water systems, local public health officials, drinking water consumers and treatment manufacturers. The

contractor shall participate in the webinars and attend the face to face meeting to listen to and explore stakeholder recommendations for alternative affordability criteria. The contractor shall review meeting notes provided by EPA for completeness and accuracy. The contractor shall not be a member of the Arsenic Small Systems Working Group and should limit his or her participation to responding to questions directed to them by EPA or posing clarifying questions to participants to assure common understanding of ideas. The contractor is also not responsible for participating in the portions of work group meetings or webinars that discuss barriers to small barriers to implementation of treatment technologies for small systems.

- A kickoff meeting via webinar to introduce the topics and review background information
- An Affordability Criteria webinar
- A two-day roundtable and panel discussion occurring over two days in the Washington, DC Metropolitan Area

- 2-2 The contractor shall prepare as directed by the WAM, briefing papers and/or slides for presentation to the Arsenic Small Systems Work Group with background information about EPA's small system compliance technology affordability criteria, previous recommendations (e.g., NDWAC and SAB) or about evaluations of alternative affordability criteria. Approximate size of Background information material will be between 5 and 20 pages.

#### **Deliverables and Schedule Under Task 2**

2-1 Observe/Participate in Webinars/Meetings	Due Date To be specified by WAM (Tentative Mid-Late March 2012)
2-2 Input for presentation on Affordability Criteria	Due Date To be specified by WAM (Tentative Mid-Late March 2012)

#### **TASK 3:**

##### **REPORT DEVELOPMENT - INCOMPLETE**

*[Contract Scope of Work Element III (Evaluating Innovations), Sections 1&2 Evaluations & Analysis]*

- 3-1 The contractor shall draft a report on innovative approaches to evaluate the affordability of small system compliance technologies or other means of complying with future drinking water standards. The contractor shall prepare a report based on information developed under Tasks 2-1 and 2-2. The report should provide the following information:

- Introduction /Purpose
- Background
- EPA's Small System Compliance Technology Methodology

- Past work group recommendations ( e.g., SAB, NDWAC)
- EPAs past consideration of alternatives
- Summary of 2012 Arsenic Small System Work Group Members Recommendations on Alternative Affordability Criteria

If directed by the WAM, the contractor shall prepare a section of the report that includes an analysis of alternative affordability criteria identified by EPA or by members of the Arsenic Small Systems Working Group (see Task 4).

The target audience for this report is the U.S. Congress. EPA will provide documents and information on the small system compliance technology determination and affordability methodology. EPA will provide the contractor with the following documents (prepared by others) from the Arsenic Small Systems Working Group: meeting summaries, meeting notes, individual input and recommendations submitted by work group members, a draft and final summary report of the individual input and recommendations. The contractor shall also search literature sources to identify and obtain any peer reviewed studies or analyses the affordability of drinking water or data collected in accordance with accepted methods that could be used to evaluate alternative affordability criteria and in the development of this report.

The contractor shall prepare and submit to EPA a draft outline for the report. EPA review and provide comments on the draft outline and will host a teleconference with the contractor to discuss feedback on the outline. The contractor shall revise the draft outline following the teleconference. The contractor shall develop the first draft of the report utilizing the outline or revised draft outline revised in accordance with EPA comments.

It is anticipated that the contractor shall submit a total of two (2) drafts for EPA review and comment prior to completion of the final report. Upon receipt of comments from the EPA WAM the contractor shall incorporate those comments and provide the revised draft for review and comment. The contractor shall provide the final report in both MS Word and portable document [PDF] formats. The contractor shall provide a CD ROM disc containing all included files, graphics and fonts for the final report. The contractor shall also prepare a 508-compliant “print-ready” PDF version of the report and a 508 compliant-version “web-ready” PDF document.

### **Deliverables and Schedule Under Task 3**

3-1a Draft Alternate Affordability Criteria Report	<b>COMPLETED</b>
3-1b Revised Draft Alternate Affordability Criteria Report	<b>COMPLETED</b>
3-1c Final Alternate Affordability Criteria Report	<b>INCOMPLETE</b> (Tentative Nov. 2012)

## **TASK 4: INCOMPLETE**

### **OPTIONAL - INNOVATIVE APPROACHES FOR AFFORDABILITY CRITERIA DATA ANALYSES**

*[Contract Scope of Work Elements III & IV (Evaluating Innovations & Application of Innovations)]*

The contractor shall complete these tasks if directed by the EPA WAM in support of the EPA staff in responding to questions and or suggestions from the stakeholder workgroup of alternative approaches in developing Affordability Criteria that gives more consideration to small rural and economically disadvantaged systems. Prior to starting work under optional Task 4 the Contractor shall submit a written Quality Assurance Supplement to the Quality Management Plan, in accordance with EPA Q/A requirements.

- 4-1 Perform Data Analyses of Alternate Affordability Criteria: – the contractor shall evaluate data sources and alternative affordability criteria as directed by the EPA WAM. The contractor shall evaluate the availability of data and computational techniques to inform alternative methodologies to determine the affordability of small system compliance technologies. If directed by the EPA WAM the contractor shall perform pilot evaluations of these alternative methodologies and evaluate the efficacy and limitations of these techniques in predicting the affordability of a drinking water treatment technology or other means of achieving compliance.
- 4-2 Develop a written evaluation of the Alternative Affordability Criteria for incorporation into the report described in Task 3. As directed by the EPA WAM, the contractor shall prepare a description of the alternative affordability criteria identified by EPA or the Arsenic Small Systems Working Group. The contractor shall provide a draft of the written evaluation to EPA for review and comment. The contractor shall revise the draft document to respond to EPA comments and as directed by the EPA WAM, incorporate the written evaluation into the report described in Task 3.

For purposes of preparing the work plan the contractor shall assume two alternative affordability criteria are identified by EPA and the workgroup, and these methodologies utilize publicly available data.

#### **Deliverables and Schedule Under Task 4**

4-1 Data Analyses for Alternate Affordability Criteria	To be determined by WAM via technical direction - (Tentative Nov 2012)
4-2 Written Evaluation of Alternative Affordability Criteria for incorporation into the report described in Task 3	To be determined by WAM via technical direction - (Tentative Nov 2012)



United States Environmental Protection Agency  
Washington, DC 20460

## Work Assignment

Work Assignment Number

3-43

☐ Other ☐ Amendment Number:

Contract Number

EP-W-10-002

Contract Period 11/19/2009 To 09/19/2014

Base

Option Period Number 3

Title of Work Assignment/SF Site Name

Report Development Altern. Aff

Contractor

INDUSTRIAL ECONOMICS, INCORPORATED

Specify Section and paragraph of Contract SOW

Element III, Sec. 1 & 2 Evaluation & Analysis

Purpose

☐

Work Assignment

☐

Work Assignment Close-Out

☐

Work Assignment Amendment

☐

Incremental Funding

☒

Work Plan Approval

Period of Performance

From 09/23/2012 to 03/31/2013

Comments:

The purpose of this action to Work Assignment (WA) 3-43 is to approve the contractor's work plan budget estimate dated October 24, 2012 for Option Year 3 with an estimated cost of (b)(4) fixed fee of (b)(4) for a ceiling of \$15,289.99, and 136.6 level of effort hours for this WA.

☐

Superfund

### Accounting and Appropriations Data

☒

Non-Superfund

SFO

(Max 2)

☐

Note: To report additional accounting and appropriations data use EPA Form 1500-69A.

Line	DCN (Max 6)	Budget/FY (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class (Max 4)	Amount (Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1										
2										
3										
4										
5										

### Authorized Work Assignment Ceiling

Contract Period:

Cost/Fee:

LOE

11/19/2009 to 09/19/2014

This Action

Total:

### Work Plan / Cost Estimate Approvals

Contractor WP Dated: 10/24/2012

Cost/Fee: \$15,289.99

LOE: 137

Cumulative Approved:

Cost/Fee: \$15,289.99

LOE: 137

Work Assignment Manager Name Samuel Hernandez

Branch/Mail Code:

Phone Number 202-564-1735

FAX Number:

(Signature)

(Date)

Project Officer Name Cheryl R. Brown

Branch/Mail Code:

Phone Number: 202-566-0340

FAX Number:

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code:

Phone Number:

FAX Number:

(Signature)

(Date)

Contracting Official Name Stefan Martiyan

Branch/Mail Code:

Phone Number: 202-564-1987

FAX Number:

(Signature)

(Date) 11/26/12

**EPA**United States Environmental Protection Agency  
Washington, DC 20460**Work Assignment**

Work Assignment Number

3-43

☐ Other ☒ Amendment Number:

000001

Contract Number

EP-W-10-002

Contract Period 11/19/2009 To 09/19/2014

Base

Option Period Number 3

Title of Work Assignment/SF Site Name

Report Development Altern. Aff

Contractor

INDUSTRIAL ECONOMICS, INCORPORATED

Specify Section and paragraph of Contract SOW

Element III, Sec. 1 &amp; 2 Evaluations &amp; Analysis

Purpose:



Work Assignment



Work Assignment Close-Out



Work Assignment Amendment



Incremental Funding



Work Plan Approval

Period of Performance

From 09/20/2012 To 06/30/2013

Comments:

The purpose of this amendment to Work Assignment (WA) 3-43 is to extend the WA period of performance to June 30, 2013, as requested by the contractor on March 20, 2013, at no additional cost to the Government.



Superfund

Accounting and Appropriations Data



Non-Superfund

SFO

(Max 2)



Note: To report additional accounting and appropriations data use EPA Form 1903-69A.

Line	DCN (Max 6)	Budget/FY (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class (Max 4)	Amount (Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1										
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3										
4										
5										

## Authorized Work Assignment Ceiling

Contract Period:

11/19/2009 To 09/19/2014

Cost/Fee:

LOE:

This Action:

Total:

## Work Plan / Cost Estimate Approvals

Contractor WP Dated:

Cost/Fee:

LOE:

Cumulative Approved:

Cost/Fee:

LOE:

Work Assignment Manager Name Samuel Hernandez

Branch/Mail Code:

(Signature)

(Date)

Phone Number 202-564-1735

FAX Number:

Project Officer Name Cheryl R. Brown

(Signature)

(Date)

Branch/Mail Code:

Phone Number: 202-566-0940

FAX Number:

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code:

Phone Number:

FAX Number:

Contracting Official Name Stefan Marliyan

(Signature)

(Date)

Branch/Mail Code:

Phone Number: 202-564-1987

FAX Number: